

## **Historic, Archive Document**

Do not assume content reflects current scientific knowledge, policies, or practices.



1.96  
R31FSO

IND/STA

Reserved



United States  
Department of  
Agriculture

Soil  
Conservation  
Service

Portland,  
Oregon



# Water Supply Outlook for Oregon as of JUNE 1, 1983





## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

### COVER PHOTO: FRESH POWDER SNOW ON ELEPHANT MOUNTAIN, NEAR THE WEST FORK OF HYALITE CREEK, IN MONTANA.

#### PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

#### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



# **WATER SUPPLY OUTLOOK FOR OREGON**

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

*Issued*

June 1, 1983

*Issued by*

PETER C. MYERS  
Chief  
SOIL CONSERVATION SERVICE  
WASHINGTON D C

*Released by*

JACK P. KANALZ  
STATE CONSERVATIONIST  
SOIL CONSERVATION SERVICE  
PORTLAND OREGON

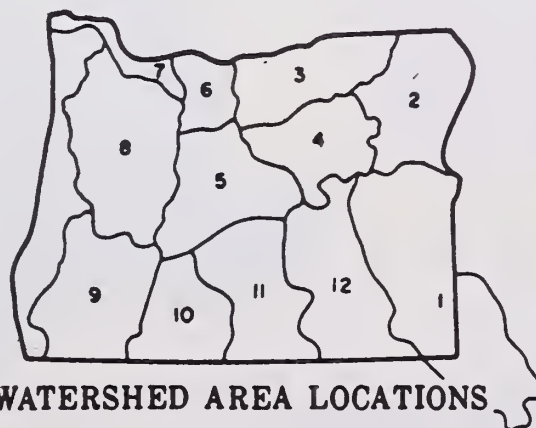
*Report prepared by*

TOMMY A. GEORGE, Snow Survey Supervisor  
STANLEY R. FOX, Asst. Snow Survey Supervisor  
WILLIAM E. WOOLCOCK, Hydrologic Technician  
SOIL CONSERVATION SERVICE  
1220 S.W. THIRD AVENUE  
PORTLAND, OREGON 97204



## TABLE OF CONTENTS

	PAGE
STREAMFLOW PROSPECTS FOR OREGON.....(MAP).....	FACING PAGE 1
WATER SUPPLY OUTLOOK FOR OREGON.....	1
STREAMFLOW FORECASTS.....	3, 4 AND 5
RESERVOIR STORAGE.....	6
BASIC DATA SUPPLEMENTS	
I    - SNOW	
II   - PRECIPITATION	
PREVIOUSLY UNPUBLISHED AND ERRATA SNOW DATA.....	APPENDIX









# WATER SUPPLY OUTLOOK FOR OREGON

JUNE 1, 1983

\*\*\*\*\*  
\*  
\* Excellent water supplies are forecast for most Oregon water users during \*  
\* the coming summer. The mountain snowpack was above average on most water- \*  
\* sheds on April 1 and with cool temperatures in April and early May the \*  
\* snowmelt was delayed by 4-6 weeks. Streamflow was above average in May. \*  
\* Precipitation was above normal in most areas of the state even with the \*  
\* warm dry days that occurred the last part of May. \*  
\*  
\*\*\*\*\*

## SNOW COVER

Of the 11 snow courses that were read on June 1, snow remained only at the highest elevation but was above normal at these sites. For example Park Headquarters in Crater Lake National Park was 170% of average. The snowmelt was delayed in most areas of the state by 4-6 weeks because of cool temperatures in April and early May.

## PRECIPITATION

The above normal precipitation pattern that occurred all winter continued in most areas of the state during May. Only two areas received less than average precipitation last month. The extreme northeast corner of the state and Klamath county recorded precipitation amounts near 60% of average.

## RESERVOIR STORAGE

Reservoir storage in Oregon's major irrigation reservoirs is the best it's been for several years. Twenty-seven reservoirs were storing 3,119,000 acre feet of water. This is 97% of capacity and 117% of average for June 1.

-continued on next page-

## STREAMFLOW

Streamflow was above normal in Oregon during May as warm temperatures during the last 2 weeks of the month accelerated the snowmelt. Volumes were 110% on the Middle Fork of the Willamette and 300% on the Owyhee in eastern Oregon. Forecasts are for above average streamflow in most of Oregon during the May-July period. The Willamette Valley streams, Hood River, Umatilla, Grande Ronde and Walla Walla Rivers are expected to produce near average flows for this summer.

Forecasts of representative Oregon streamflow for the May-July period are as follows:

<u>STREAM</u>	<u>FORECAST % OF 1963-77 AVG.</u>
Owyhee net Inflow	236
Grande Ronde @ LaGrande	104
Umatilla @ Pendleton	90
Deschutes @ Benham Falls	118
Willamette, Mid. Fk. Near Oakridge	110
Rogue @ Raygold	120
Upper Klamath Lake net Inflow	150
Silvies near Burns	160

These forecasts assume normal weather conditions from now through the rest of the summer.

These forecasts are a result of a coordinated activity between the Soil Conservation Service and National Weather Service as an effort to provide the best possible service to the water user.

This report contains data furnished by the Oregon Department of Water Resources, U.S. Geological Survey, NOAA National Weather Service and other cooperators.

# STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
BASIN, STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>c</sup>
OWYHEE, MALHEUR WATERSHEDS Area 1					
Bully Creek at Warm Springs	95	754	March-May		12.6 b
Malheur near Drewsey	92	255	May-July		36
	93	251	May-Sept.		37
Malheur, North Fork at Beulah	63	162	May-July		39
	69	157	May-Sept.		44
Owyhee Reservoir net Inflow	465	236	May-July		197
	493	220	May-Sept.		224
Owyhee @ Rome	481	236	May-July		204
Succor Creek near Jordan Valley	11.3	221	May-July		5.1 b
BURNT, POWDER, PINE, IMNAHA, GRANDE RONDE WATERSHEDS AREA 2					
Anthony Creek blw. North Fork nr. North Powder	21	153	May-July		13.7
Bear near Wallowa	67	113	May-Sept.		59
Big Creek blw. Burn Creek near Medical Spring	8.1	124	May-July		6.5
Burnt near Hereford	40	238	May-July		16.8
	42	230	May-Sept.		18.3
Catherine near Union	66	122	May-Sept.		54
Deer Creek above Phillips Res. near Sumpter	17.3	152	May-July		11.4 b
Eagle Creek above Skull Creek	197	132	May-July		149
	215	130	May-Sept.		165
Grande Ronde at LaGrande	100	104	May-July		96
	104	104	May-Sept.		100
Hurricane near Joseph	49	110	May-Sept.		44
Imnaha at Imnaha	352	137	May-Sept.		256
Lostine near Lostine	130	111	May-Sept.		117
Pine Creek near Oxbow	208	132	May-July		157 b
Powder near Sumpter	56	130	May-July		43
	58	132	May-Sept.		44
Wallowa, East Fork near Joseph	10.3	121	May-July		8.5
	13.1	122	May-Sept.		10.8
Wallowa at Joseph	85	122	May-July		69
Wolf Creek Reservoir net Inflow	14.5	173	May-June		8.4
UMATILLA, WALLA WALLA, WILLOW, ROCKS LOWER JOHN DAY WATERSHEDS Area 3					
Butter Creek near Pine City	4.5	124	May-July		3.5
Couse Creek near Milton Freewater	1.7	100	May-July		1.7 b
McKay near Pilot Rock	13.4	183	May-Sept.		7.3
Pine Creek near Weston	0.9	100	May-July		0.9 b
Rhea Creek near Heppner	1.9	100	May-July		1.9
Rock Creek above Cayuse Canyon near Condon	2.6	110	May-July		2.4 b
Umatilla near Gibbon	39	90	May-July		43
	44	90	May-Sept.		49
Umatilla at Pendleton	67	90	May-July		74
Walla Walla, South Fork near Milton	50	93	May-Sept.		54
Willow Creek at Heppner	3.0	112	May-July		2.7



# STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
BASIN, STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>c</sup>
UPPER JOHN DAY WATERSHEDS Area 4					
Camas Creek near Ukiah	16.4	100	May-July		16.4
John Day, Middle Fork at Ritter	91	127	May-July		72
	96	127	May-Sept.		76
John Day, North Fork at Monument	440	125	May-July		352
	459	125	May-Sept.		367
Mountain Creek near Mitchell	3.6	164	May-July		1.9 b
Strawberry near Prairie City	8.2	120	May-July		6.8
	8.9	120	May-Sept.		7.4
UPPER DESCHUTES, CROOKED WATERSHEDS Area 5					
Beaver Creek near Paulina	8.0	163	May-July		4.9
	8.4	167	May-Sept.		5.0
Crane Prairie Reservoir total Inflow	94	147	May-July		64
	139	132	May-Sept.		106
Crescent at Crescent Lake	19.4	125	May-July		15.5
	24	122	May-Sept.		19.8
Crooked River near Prineville	123	351	May-July		35
Crooked R., . Fk. blw. Lookout Cr. nr Paulina	10.7	249	May-July		4.3b
Deschutes below Bend	191	107	Aug.-Sept.		16.6b
Deschutes at Benham Falls	345	118	May-July		291
	561	116	May-Sept.		483
Deschutes below Snow Creek	84	148	May-Sept.		57
Deschutes, Little near La Pine	80	141	May-July		56
	92	137	May-Sept.		67
Ochoco Reservoir net Inflow	25	298	May-Sept.		8.4
Squaw near Sisters	56	124	May-Sept.		45
Tumalo near Bend	52	129	May-Sept.		41
HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS Area 6					
Hood River at Tucker Bridge near Hood River	160	95	May-July		169
	205	95	May-Sept.		216
Hood River, West Fork near Dee	86	98	May-July		87
	108	99	May-Sept.		109
White below Tygh Valley	73	90	May-July		81
	86	90	May-Sept.		96
LOWER COLUMBIA WATERSHEDS Area 7					
Columbia at The Dalles	45,400	92	Jun-July		49,540
	61,400	95	May-Sept.		64,510
Sandy River near Marmot	200	85	May-July		230
	242	85	May-Sept.		285

# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average C
WILLAMETTE WATERSHEDS Area 8					
Clackamas at Estacada	400	85	May-July		470
	496	85	May-Sept.		584
Clackamas above Three Lynx	291	80	May-July		364
	368	80	May-Sept.		460
McKenzie at McKenzie Bridge	302	90	May-July		338
	454	94	May-Sept.		484
McKenzie near Vida	625	85	May-July		735
	824	85	May-Sept.		970
McKenzie, South Fork near Rainbow	130	90	May-July		144
	154	90	May-Sept.		171
Mohawk River near Springfield	32	100	May-July		32
Oak Gorve Fork above Power Intake	80	80	May-July		100
	110	80	May-Sept.		138
Row near Dorena	52	100	May-July		52
	57	100	May-Sept.		57
Santiam, North at Mehama	405	80	May-July		506
	491	80	May-Sept.		614
Santiam, South at Waterloo	275	85	May-July		323
	311	85	May-Sept.		366
Scoggins Creek near Gaston	5.7	111	May-July		5.1
Thomas Creek near Scio	40	103	May-July		39
Willamette, Coast Fork near London	15.2	110	May-July		13.8
Willamette, Middle Fork below North Fork	518	110	May-July		471
near Oakridge	626	110	May-Sept.		569
Willamette, No. Fork of Mid Fork near Oakridge	138	110	May-July		125
	161	110	May-Sept.		146
Willamette at Salem	2,299	90	May-July		2,554
	2,825	93	May-Sept.		3,038
ROGUE, UMPQUA WATERSHEDS Area 9					
Applegate near Copper	154	190	May-July		81
	167	190	May-Sept.		88
Big Butte Creek, So. Fork near Butte Falls	40	121	May-Sept.		33
Clearwater above Trap Creek	61	103	May-Sept.		59
Cow Creek near Azalea	9.7	117	May-July		8.3
Fourmile Lake net Inflow	7.4	255	May-Sept.		2.9
Grave Creek at Pease Bridge near Placer	3.9	126	May-July		3.1
Hyatt Reservoir net Inflow	4.0	148	May-July		2.7
Illinois River near Kerby	124	150	May-July		83
	135	150	May-Sept.		90
Little Butte, N.Fk. at Fish Lake near Lake Cr.	16.7	140	May-Sept.		11.9
Little Butte, S. Fk. near Lake Creek	26	142	May-July		18.5
	30	142	May-Sept.		21
Red Blanket Creek near Prospect	35	129	May-July		27
Rogue above Prospect	228	120	May-July		190
	296	120	May-Sept.		247
Rogue, South Fork near Prospect	58	120	May-July		48
	71	120	May-Sept.		59
Rogue at Raygold near Central Point	614	120	May-July		512
	810	120	May-Sept.		675
Rogue at Grants Pass	862	124	May-Sept.		647
Sucker Cr. Blw. Little Grayback near Holland	59	160	May-July		37
Umpqua, No.blw. Lemolo Lake nr. Toketee Falls	92	86	Jun-Sept.		107
Umpqua, No. at Winchester	549	112	May-July		490
Umpqua, South near Brockway	202	110	May-July		184
Umpqua, South at Tiller	114	110	May-July		104

# STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
BASIN, STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>c</sup>
KLAMATH WATERSHEDS Area 10					
Clear Lake Reservoir Inflow	33	188	May-Sept.		17.5
Gerber Reservoir Inflow	15.4	285	May-Sept.		5.4
Sprague near Chiloquin	250	150	May-Sept.		167
Upper Klamath Lake net Inflow	513	150	May-Sept.		342
Williamson below Sprague River	428	150	May-Sept.		285
LAKE COUNTY, GOOSE LAKE WATERSHEDS Area 11					
Bridge Creek near Spahr Ranch near Silver Lake	5.6	186	May-July		3.0
Chewaucan near Paisley	96	166	May-July		58
	101	163	May-Sept.		62
Cottonwood Creek near Lakeview	11.0	172	May-July		6.4
Deep above Adel	92	200	May-July		46
	95	198	May-Sept.		48
Drews Reservoir net Inflow	20	190	May-July		10.6
Honey Creek near Plush	25	203	May-July		12.4
	26	203	May-Sept.		12.6
Silver Creek near Silver Lake	15.0	186	May-July		8.1
Twentymile near Adel	23	204	May-Sept.		11.4
HARNEY BASIN WATERSHEDS Area 12					
Donner und Blitzen near Frenchglen	82	200	May-July		41
	92	200	May-Sept.		46
Silver near Riley	14.0	237	May-July		5.9
Silvies River near Burns	61	160	May-July		38
	64	160	May-Sept.		40
Trout Creek near Denio	15.1	232	May-July		6.5
	16.4	234	May-Sept.		7.0



# RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR		Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
OWYHEE, MALHEUR WATERSHEDS Area 1					
Beulah Reservoir		60.0	60.2	59.9	48.4
Bully Creek		30.0	28.6	29.3	21.2
Owyhee		715.0	715.0	716.3	610.8
Warm Springs		191.0	191.7	190.9	144.4
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS Area 2					
Phillips Lake		73.5	82.3	77.1	63.9
Thief Valley		17.4	18.6	18.1	16.4b
Unity		25.2	25.0	25.0	22.4
Wallowa Lake		37.5	27.4	23.2	33.3
Wolf Creek		10.4	11.1	9.4	--
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS Area 3					
Cold Springs		50.0	49.5	49.5	45.3
McKay		73.8	68.0	67.9	56.2
UPPER DESCHUTES, CROOKED WATERSHEDS Area 5					
Crane Prairie		55.3	56.2	46.0	45.8
Crescent Lake		86.9	81.1	40.5	69.1
Ochoco		47.5	45.9	46.0	36.5
Prineville		153.0	155.3	154.3	143.3
Wickiup		200.0	182.3	163.7	166.3
HOOD, MILE CREEKS, LOWER DESHCUTES WATERSHEDS Area 6					
Lake (Wasco)		11.9	8.9	6.7	6.2

# RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
WILLAMETTE WATERSHEDS Area 8				
Blue River	85.6*	78.8	80.3	79.6
Cottage Grove	30.0*	28.6	23.6	27.3
Cougar	155.2*	142.7	145.8	141.5b
Detroit	299.9*	279.5	278.7	277.1
Dorena	70.5	64.8	61.7	64.5
Fall Creek	115.0*	109.0	102.4	108.4b
Fern Ridge	94.2*	94.2	93.3	86.0
Foster	30.0*	24.7	24.8	22.5b
Green Peter	270.0*	253.3	246.6	248.5
Hills Creek	200.0*	194.2	194.6	181.7b
Lookout Point	337.2*	318.5	315.8	291.1
Timothy Lake	61.7	59.9	60.2	60.8
Henry Hagg Lake	53.0	53.1	52.2	--
*Multiple purpose reservoir--space reserved primarily for flood runoff.				
ROGUE, UMPQUA WATERSHEDS Area 9				
Applegate	75.2	74.1	74.8	--
Emigrant Lake	39.0	38.3	36.8	37.1
Fish Lake	8.0	7.6	6.0	6.8
Fourmile Lake	16.1	14.1	7.7	12.7
Howard Prairie	60.0	60.6	60.6	57.4
Hyatt Prairie	16.1	16.1	16.0	15.0
Lost Creek	315.0	306.2	315.4	--
KLAMATH WATERSHEDS AREA 10				
Clear Lake	440.2	455.4	344.1	286.5
Gerber	94.0	92.9	91.1	72.5
Upper Klamath Lake	584.0	505.9	497.4	519.2
LAKE COUNTY, GOOSE LAKE WATERSHEDS Area 11				
Cottonwood	8.7	8.7	8.7	6.9
Drews	63.0	63.5	63.0	56.6
Thompson Valley	19.5	19.5	18.6	--

† 1958=1972 period.

## BASIC DATA SUPPLEMENT 1

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (Inches)	
				Last Yr.	Ave. <sup>c</sup>
Annie Spring Rev. Annie Spring (DISC. 83)	5/27	113	60.7 60.1a	-- 37.7	-- 54.4
Billie Creek Divide	5/27	4	2.0	0.0	0.8b
Billie Cr. Divide Plw. (T)	5/27	--	0.0	--	--
Billie Cr. Divide Plw. (S)	5/27	0	0.0	--	--
Billie Cr. Divide Plw. (M)	5/27	--	0.0	--	--
Clear Lake	5/31	0	0.0	0.0	0.5b
Clear Lake Plw. (T)	5/31	--	0.0	0.0	--
Clear Lake Plw. (S)	5/31	0	0.0	0.0	--
Clear Lake Plw. (M)	5/31	--	0.0	0.0	--
Clear Lake Experimental	5/31	0	0.0	0.1	1.3b
Diamond Lake	5/26	17	7.4	6.1	6.4b
Diamond Lake Pillow (T)	5/26		0.0	0.0	--
Diamond Lake Pillow (S)	5/26	0	0.0	0.0	--
Diamond Lake Pillow (M)	5/26	--	0.0	0.0	--
Fourmile Lake	5/27	42	22.2	0.0	2.6
Fourmile Lake Pillow (T)	5/27	--	21.7	15.4	--
Fourmile Lake Pillow (S)	5/27	59	28.4	17.3	--
Fourmile Lake Pillow (M)	5/27	--	27.2	13.1	--
Hungry Flat	5/31	0	0.0	0.0	--
Mud Ridge Pillow (T)	5/31	--	0.0	13.5	--
Mud Ridge Pillow (S)	5/31	0	0.0	10.5	--
Mud Ridge Pillow (M)	5/31	--	0.0	13.7	--
New Dutchman Flat	5/31	85	49.4	51.8	40.6b
Park Headquarters Rev. Park Headquarters (DISC.83)	5/27	152	82.8 82.7a	64.3	49.0
Quartz Mountain	5/31	0	0.0	0.0	--
Quartz Mtn. Pillow (T)	5/31	--	0.0	0.1	--
Quartz Mtn. Pillow (S)	5/31	0	0.0	0.0	--
Quartz Mtn. Pillow (M)	5/31	--	0.0	0.0	--
Tangent	5/31	TR	0.1	0.0	1.6b

TR = Trace  
 T = Telemetry Reading  
 S = Snow Tube Reading  
 M = Manometer Reading

## SNOW

[illegible]

TR = Trace  
T = Telemetry Reading  
S = Snow Tube Reading  
M = Manometer Reading

(a) Estimated. (b) 1963-77 adjusted average. (c) 1963-77, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.

# BASIC DATA SUPPLEMENT 2

## PRECIPITATION (Inches)

June 1, 1983

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION		PAST RECORD	
		Date of Reading	Precipitation	Last Year	Average <sup>c</sup>
Clear Lake (Wasco County)	3500	From 4/28 To 5/31	1.20"		
Diamond Lake (Douglas County)	4600	From 4/28 To 5/26	3.48"		
Fourmile Lake (Klamath County)	6000	From 4/28 To 5/27	2.88"		
Mud Ridge (Clackamas County) **	4050	From 4/28 To 5/31	3.00"		
Quartz Mountain (Lake County)	6300	From 4/26 To 5/27	1.78"		
** Telemetry reading					

(a) Estimated. (b) 1963-77 adjusted average. (c) 1963-77, 15 year average. (d) Corrected to natural flow. (e) Not scheduled.



ERRATA: 1983 STREAMFLOW FORECASTS PUBLISHED IN ERROR

<u>STREAM NAME</u>	<u>REPORT</u>	<u>PERIOD</u>	<u>FORECAST 1000's af</u>	<u>AVERAGE 1000's af</u>
Columbia River at The Dalles, OR	January			
Previously Published		April-July	89	88
		April-Sept.	104	103
Correct Data		April-July	88,850	88,520
		April-Sept	104,000	103,490

ERRATA: 1983 SNOW MEASUREMENTS PUBLISHED IN ERROR

<u>SNOW COURSE</u>	<u>REPORT</u>	<u>SNOW DEPTH (INCHES)</u>	<u>WATER CONTENT (INCHES)</u>
Mary's Peak	April		
Previously Published		N/R	
Correct Data		9	2.7
Marks Creek	May		
Previously Published		N/R	
Correct Data		0	0.0
Silver Burn	May		
Previously Published		N/R	
Correct Data		0	0.0

ERRATA: 1983 PRECIPITATION READINGS PUBLISHED IN ERROR

<u>PRECIP. STATION NAME</u>	<u>REPORT</u>	<u>READING IN INCHES</u>
Bourne (Baker County)	January	
Previously Published		11.50
Correct Data		N/R

ERRATA: 1983 RESERVOIR STORAGE FIGURES PUBLISHED IN ERROR

<u>RESERVOIR NAME</u>	<u>REPORT</u>	<u>DATE</u>	<u>GAGE HEIGHT</u>	<u>SURFACE ACRES</u>
Malheur Lake	January			
Previously Published		July 1	93.9	50,400
Correct Data		July 1	96.17	80,000
Previously Published		Aug. 1	93.4	41,500
Correct Data		Aug. 1	95.68	76,600

<u>RESERVOIR NAME</u>	<u>REPORT</u>	<u>USABLE STORAGE THIS YEAR</u>
Blue River	January	0.1
Cottage Grove	"	0.0
Cougar	"	0.8
Detroit	"	8.8
Dorena	"	0.0
Fall Creek	"	0.3
Fern Ridge	"	0.0
Foster	"	0.2
Green Peter	"	7.8
Hills Creek	"	10.4
Lookout Point	"	10.3
Applegate	"	9.5
Lost Creek	"	134.6
Cottonwood	"	3.7
Drews	"	43.3

UNSCHEDULED SNOTEL SNOW TUBE MEASUREMENTS TAKEN DURING WATER YEAR 1982-83:

SNOTEL SITE	DATE	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)
Aneroid Lake	5/19/83	98	44.3
Diamond Lake	1/25/83	39	13.0
Greenpoint	3/11/83	33	14.0
Holland Meadows	1/19/83	35	13.8
Moss Springs	5/17/83	44	21.1
Mt. Hood Test Site	1/14/83	81	32.9
Saddle Mountain	2/14/83	6	1.6
Santiam Junction	1/18/83	31	12.1
Silver Creek	2/16/83	56	15.0
Silvies	2/15/83	74	28.4
Summit Lake	1/19/83	70	24.3